

IN THE CLAIMS:

1. – 20. (Withdrawn)

21. (Currently Amended) A method to identify ~~integrin-mediated~~ signaling mediated by an integrin selected from the group consisting of $\beta 3$, $\beta 5$, $\beta 6$, $\beta 7$ and $\beta 8$ comprising the step of determining whether the cytoplasmic domain of said integrin is phosphorylated.

22. (Previously Amended) The method of claim 21 comprising the steps of;

- a) preparing an extract of a cell expressing an integrin of claim 21,
- b) separating components of said extract, and
- c) analyzing said separated components to determine whether the β subunit of said integrin is phosphorylated.

23. (Original) The method of claim 22 wherein an anti-phosphotyrosine antibody is used in the analysis step c).

24. – 29. (Withdrawn)

30. (Previously Added) The method of claim 22 wherein the extract is prepared with a high concentration of SDS.

31. (Previously Added) The method of claim 22 wherein the extract is separated by electrophoresis.

32. (Previously Added) The method of claim 31 wherein the electrophoresis is 2D electrophoresis.

33. (Previously Added) The method of claim 22 wherein the cell is a tumor cell.

34. (Previously Added) The method of claim 33 wherein the tumor cell is a carcinoma cell.

35. (Previously Added) The method of claim 22 wherein the cell is a platelet.

36. (Previously Added) The method of claim 22 wherein the cell is an immune system cell.

37. (Previously Added) The method of claim 36 wherein the immune system cell is selected from the group consisting of: a lymphocyte, a leukocyte, a monocyte, a macrophage, a granulocyte, a natural killer cell, and a neutrophil.

38. (Previously Added) The method of claim 22 wherein the cell is an epithelial cell.

39. (Previously Added) The method of claim 38 wherein the epithelial cell is a keratinocyte.

40. (Previously Added) The method of claim 22 wherein the cell is a fibroblast.